

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Cancel Claims 1-14.

15. (New) A triterpene saponin prepared by a process for the isolation of triterpene saponins belonging to the family *Myrsinaceae*, wherein said saponin is isolated from the plant species *Maesa balansae*, said process comprising

- (a) extracting dried plant parts with an alcohol and concentrating the extract,
- (b) removing the apolar fraction from the extract by liquid-liquid extraction with an apolar solvent, and
- (c) further purifying the saponin in the alcohol extract by liquid-liquid extraction, filtration and chromatography, wherein the chromatography comprises reversed-phase liquid chromatography with gradient eluent system using

A : 0.5 % ammonium acetate in water

B : methanol

C : acetonitrile

wherein at  $t = 0$ , (A:B:C) = (60:20:20) and at  $t = \text{end}$ , (A:B:C) = (0:50:50), and wherein said saponin has the following characteristics:

Compound 1 : MW = 1532,  $\lambda_{\text{max}}$  = 228.6 nm,  $\lambda_{\text{max}2}$  = 273.3 nm ;

Compound 2 : MW = 1510,  $\lambda_{\text{max}}$  = 223.9 nm,  $\lambda_{\text{max}2}$  = 274.5 nm ;

Compound 3 : MW = 1532,  $\lambda_{\text{max}}$  = 279.2 nm,  $\lambda_{\text{max}2}$  = 223.9 nm ;

Compound 4 : MW = 1510,  $\lambda_{\text{max}}$  = 280.4 nm,  $\lambda_{\text{max}2}$  = 222.7 nm ;

Compound 5 : MW = 1574,  $\lambda_{\text{max}}$  = 276.8 nm,  $\lambda_{\text{max}2}$  = 225.0 nm ; or

Compound 6 : MW = 1552,  $\lambda_{\text{max}}$  = 279.2 nm,  $\lambda_{\text{max}2}$  = 223.9 nm.

16. (New) The triterpene saponin according to claim 15 wherein the alcohol is methanol, ethanol, isopropanol, or butanol, each optionally admixed with water.

17. (New) A process according to claim 15 wherein the saponins of the alcohol extract are further purified by

(c6) extracting the aqueous fraction with butanol saturated with water,

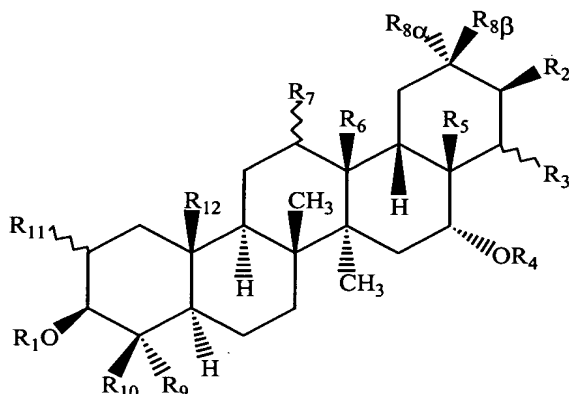
(c7) evaporating the organic layer to dryness,

(c8) washing the residue in a ketone, and

(c9) filtering off the crude saponin mixture.

18. (New) A pharmaceutical composition comprising a pharmaceutically acceptable excipient and as an active ingredient a triterpene saponin according to claim 15.

19. (New) A method of alleviating clinical manifestations of, and treating disorders known as leishmaniasis attributable to infection by protozoan parasites of the genus *Leishmania* in both humans and animals, comprising administering to an infected host a therapeutically effective amount of a compound of formula:



a stereoisomeric form thereof or a pharmaceutically acceptable addition salt thereof, wherein

R<sub>1</sub> is hydrogen, -(C=O)C<sub>1-5</sub>alkyl, -(C=O)C<sub>2-5</sub>alkenyl, -(C=O)C<sub>2-5</sub>alkenyl substituted with phenyl, a monosaccharide group or an oligosaccharide group ;

R<sub>2</sub> is hydrogen, hydroxy, -O(C=O)C<sub>1-5</sub>alkyl, -O(C=O)C<sub>2-5</sub>alkenyl, -O(C=O)C<sub>6</sub>H<sub>5</sub>, or -O(C=O)C<sub>2-5</sub>alkenyl substituted with phenyl ;

R<sub>3</sub> is hydrogen, hydroxy, -O(C=O)C<sub>1-5</sub>alkyl, -O(C=O)C<sub>2-5</sub>alkenyl, -O(C=O)C<sub>6</sub>H<sub>5</sub>, or -O(C=O)C<sub>2-5</sub>alkenyl substituted with phenyl ;

R<sub>4</sub> is hydrogen, C<sub>1-6</sub>alkyl, -(C=O)C<sub>1-5</sub>alkyl, -(C=O)C<sub>2-5</sub>alkenyl, -(C=O)C<sub>6</sub>H<sub>5</sub>, or -(C=O)C<sub>2-5</sub>alkenyl substituted with phenyl ;

R<sub>5</sub> is CH<sub>3</sub>, CH<sub>2</sub>OH, CH<sub>2</sub>OCH<sub>3</sub>, CH<sub>2</sub>O-C(=O)CH<sub>3</sub>, CHO, or COOH ; or

R<sub>5</sub> and R<sub>2</sub> form a divalent radical of formula -C(=O)-O- ;

R<sub>6</sub> and R<sub>7</sub> are hydrogen; or taken together they form a bond; or

R<sub>5</sub> and R<sub>6</sub> form a divalent radical of formula

-CH<sub>2</sub>-O- (a),

-CH(OR<sub>13</sub>)-O- (b), or

-C(=O)-O- (c),

wherein R<sub>13</sub> is hydrogen, C<sub>1-6</sub>alkyl or -(C=O)C<sub>1-5</sub>alkyl ;

R<sub>8α</sub> and R<sub>8β</sub> each independently represent CH<sub>3</sub>, CH<sub>2</sub>OH, CH<sub>2</sub>OCH<sub>3</sub>,

$\text{CH}_2\text{O}-\text{C}(=\text{O})\text{C}_{1-5}\text{alkyl}$ ,  $\text{CHO}$ ,  $\text{CH}(\text{OCH}_3)_2$ ,  $\text{CH}=\text{NOH}$ , or  $\text{COOH}$  ;

$\text{R}_{8\beta}$  and  $\text{R}_3$  form a divalent radical of formula  $-\text{C}(=\text{O})-\text{O}-$  ;

$\text{R}_{8\beta}$  and  $\text{R}_5$  form a divalent radical of formula  $-\text{CH}_2\text{O}-\text{CHOH}-$  ;

$\text{R}_9$  is  $\text{CH}_3$ ,  $\text{CH}_2\text{OH}$ ,  $\text{CH}_2\text{OCH}_3$ ,  $\text{CH}_2\text{O}-\text{C}(=\text{O})\text{C}_{1-5}\text{alkyl}$ ,  $\text{CHO}$ , or  $\text{COOH}$  ;

$\text{R}_{10}$  is  $\text{CH}_3$ ,  $\text{CH}_2\text{OH}$ ,  $\text{CH}_2\text{OCH}_3$ ,  $\text{CH}_2\text{O}-\text{C}(=\text{O})\text{C}_{1-5}\text{alkyl}$ ,  $\text{CHO}$ , or  $\text{COOH}$  ;

$\text{R}_{11}$  is hydrogen, hydroxy or  $\text{O}-\text{C}(=\text{O})\text{C}_{1-5}\text{alkyl}$  ; or  $\text{R}_{10}$  and  $\text{R}_{11}$  form a divalent radical of formula  $-\text{CH}_2\text{O}-$  ; and

$\text{R}_{12}$  is  $\text{CH}_3$ ,  $\text{CH}_2\text{OH}$ ,  $\text{CH}_2\text{OCH}_3$ ,  $\text{CH}_2\text{O}-\text{C}(=\text{O})\text{CH}_3$ ,  $\text{CHO}$ ,  $\text{CH}=\text{NOH}$ , or  $\text{COOH}$ .

20. (New) The method according to claim 19 wherein

$\text{R}_1$  is hydrogen,  $-(\text{C}=\text{O})\text{C}_{1-5}\text{alkyl}$ , or an oligosaccharide group ;

$\text{R}_3$  is hydrogen, hydroxy,  $-\text{O}(\text{C}=\text{O})\text{C}_{1-5}\text{alkyl}$ ,  $-\text{O}(\text{C}=\text{O})\text{C}_{2-5}\text{alkenyl}$ , or  $-\text{O}(\text{C}=\text{O})\text{C}_{2-5}\text{alkenyl}$  substituted with phenyl ;

$\text{R}_4$  is hydrogen,  $\text{C}_{1-6}\text{alkyl}$ ,  $-(\text{C}=\text{O})\text{C}_{1-5}\text{alkyl}$ , or  $-(\text{C}=\text{O})\text{C}_{2-5}\text{alkenyl}$  ;

$\text{R}_5$  is  $\text{CH}_2\text{OH}$ ,  $\text{CH}_2\text{O}-\text{C}(=\text{O})\text{CH}_3$ , or  $\text{CHO}$  ; and

$\text{R}_6$  and  $\text{R}_7$  taken together form a bond; or

$\text{R}_5$  and  $\text{R}_6$  form a divalent radical of formula

$-\text{CH}_2-\text{O}-$  (a),

$-\text{CH}(\text{OR}_{13})-\text{O}-$  (b), or

$-\text{C}(=\text{O})-\text{O}-$  (c),

wherein  $\text{R}_{13}$  is hydrogen,  $\text{C}_{1-6}\text{alkyl}$  or  $-(\text{C}=\text{O})\text{C}_{1-5}\text{alkyl}$  ; and

$\text{R}_7$  is hydrogen ;

$\text{R}_{8\beta}$  represents  $\text{CH}_3$ ,  $\text{CH}_2\text{OH}$ ,  $\text{CHO}$ ,  $\text{CH}(\text{OCH}_3)_2$ ,  $\text{CH}=\text{NOH}$ , or  $\text{COOH}$  ;

$\text{R}_{8\alpha}$  represents  $\text{CH}_3$  ;

R<sub>8β</sub> and R<sub>3</sub> form a divalent radical of formula -C(=O)-O- ; or

R<sub>8β</sub> and R<sub>5</sub> form a divalent radical of formula -CH<sub>2</sub>O-CHOH- ;

R<sub>10</sub> is CH<sub>3</sub>, CH<sub>2</sub>OH ;

R<sub>11</sub> is hydrogen, hydroxy or O-C(=O)C<sub>1-5</sub>alkyl ; or

R<sub>10</sub> and R<sub>11</sub> form a divalent radical of formula -CH<sub>2</sub>O- ; and

R<sub>12</sub> is CH<sub>3</sub>, CH<sub>2</sub>OH, CH<sub>2</sub>O-C(=O)CH<sub>3</sub>, CHO, or CH=NOH.

21. (New) The method according to claim 20 wherein

R<sub>1</sub> is hydrogen or an oligosaccharide group ;

R<sub>2</sub> is hydrogen, hydroxy, -O(C=O)C<sub>1-5</sub>alkyl, -O(C=O)C<sub>2-5</sub>alkenyl, -O(C=O)C<sub>6</sub>H<sub>5</sub>, or -

O(C=O)C<sub>2-5</sub>alkenyl substituted with phenyl ;

R<sub>3</sub> is hydrogen, hydroxy, -O(C=O)C<sub>1-5</sub>alkyl, -O(C=O)C<sub>2-5</sub>alkenyl, or

-O(C=O)C<sub>2-5</sub>alkenyl substituted with phenyl ;

R<sub>4</sub> is hydrogen, C<sub>1-6</sub>alkyl, -(C=O)C<sub>1-5</sub>alkyl, -(C=O)C<sub>2-5</sub>alkenyl, or -(C=O)C<sub>2-5</sub>alkenyl

substituted with phenyl ;

R<sub>5</sub> is CH<sub>2</sub>OH, CH<sub>2</sub>OCH<sub>3</sub>, CH<sub>2</sub>O-C(=O)CH<sub>3</sub>, CHO, or COOH ; and

R<sub>6</sub> and R<sub>7</sub> taken together form a bond; or

R<sub>5</sub> and R<sub>6</sub> form a divalent radical of formula

-CH<sub>2</sub>-O- (a),

-CH(OR<sub>13</sub>)-O- (b), or

-C(=O)-O- (c),

wherein R<sub>13</sub> is hydrogen ; and

R<sub>7</sub> is hydrogen ;

R<sub>8α</sub> and R<sub>8β</sub> both represent CH<sub>3</sub> ;

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**PATENT**

**Application No.:** not yet assigned

**Preliminary Amendment - First Action Not Yet Received**

R<sub>9</sub> is CH<sub>3</sub> ;

R<sub>10</sub> is CH<sub>3</sub> ;

R<sub>11</sub> is hydrogen ; and

R<sub>12</sub> is CH<sub>3</sub>.